

AeroPrecision

ESSEX[™]
INDUSTRIES

LIFE SUPPORT SYSTEMS



OXYGEN GENERATOR AND LIQUEFIER (OGL)



The Oxygen Generator and Liquefier (OGL) liquefies, stores and fills liquid oxygen (LOX)

- FDA 510(k) Clearance Number K131990
- Generates 1 liquid liter of 93% USP oxygen per hour
- Onboard LOX storage vessel
- Able to fill BMOS, BMOS-FS, MMOS, NPTLOX and PTLOX
- System performance data logging and fault output capability
- PC Boards with on-board watchdog timer
- Designed for reliability in harsh conditions (0° - 120° F)
- Automatically starts and stops based on liquid level in the 40 liter tank
- Provides 11 L/min 93% USP gas for filling HP cylinders.
- Washable/Reusable Filters

APPLICATIONS

Medevac (fixed and rotary wing), ground transport, parachutist and ground evacuation.

P/N 50C-0103-5 (tan) | NSN 3655-01-601-2119 | P/N 50C-0103-7 (dark green)

Backpack Medical Oxygen System Filling Station (BMOS-FS)

The BMOS Filling Station (BMOS-FS) is a portable 20 liter liquid oxygen storage device designed to fill multiple BMOS or MMOS systems. Average filling time is approximately three minutes. Requires no external power and has a built-in flow control valve. Tested to MIL-STD-810.

APPLICATIONS

Can be carried by two ground support personnel and can also be mounted in an aircraft, helicopter or ground vehicle.

P/N 50C-0083-3 (green) | NSN 3655-01-601-2275 | P/N 50C-0083-4 (dark green)



JAPANESE MINISTRY OF DEFENSE SELECTED ESSEX INDUSTRIES LIFE SUPPORT SYSTEMS

ESSEX Industries Life Support Systems were selected, tested, and successfully implemented by the Japanese Ministry of Defense during the rescue operations and relief efforts following the devastating 2011 earthquake and tsunami disaster.

FDA 510(K)
CLASS II APPROVED

PORTABLE
LOW PRESSURE

LOX Storage & Gaseous Delivery Systems



Mounted Medical Oxygen System (MMOS)

4 Liter | MIL-STD-810 | 35lbs (full) | Requires no external power

APPLICATIONS

Can be carried by ground support personnel and can also be mounted in an aircraft, helicopter or ground vehicle.

P/N 50C-0105-1 | FDA# K113767

Backpack Medical Oxygen System (BMOS)

2 liter | MIL-STD-810 | 19 lbs (full) | Requires no external power

APPLICATIONS

Can be carried or worn by parachutists and ground support personnel.

P/N 50C-0089-4 | NSN 3655-01-598-9565 | FDA# 071581



Next Generation Portable Therapeutic Liquid Oxygen System (NPTLOX)

20 liter | 150 lbs (full)

APPLICATIONS

Can be carried by ground support personnel and can also be mounted in an aircraft or ground vehicle.

P/N 50C-0083-1 | NSN 6530-01-585-4676 | FDA# K033000



Portable Therapeutic Liquid Oxygen System (PTLOX)

10 Liter | 80 lbs (full) | LOX Storage and gaseous delivery system

APPLICATIONS

Can be carried by ground support personnel and can also be mounted in an aircraft or ground vehicle.

P/N 50C-0021-1 | NSN 6530-01-222-9494 | FDA# K880183



PART DESCRIPTION	NSN	PN	ALT PN	Platforms	Cage Code
OXYGEN GENERATOR AND LIQUIFIER (OGL)	3655-01-631-2889	50C-0103-5	3655NCM141218, 1206499	Ground Support	19062
BACKPACK MEDICAL OXYGEN SYSTEM (BMOS)	3655-01-628-1034	50C-0089-4	3655NCM141069, 1134924	Parachutists, Ground Support Personnel, Human transport, aircraft, helicopter or ground vehicles.	19062
MOUNTED MEDICAL OXYGEN SYSTEM (MMOS)	N/A	50C-0105-1		Parachutists, Ground Support Personnel, Human transport, aircraft, helicopter or ground vehicles.	19062
PORTABLE THERAPEUTIC LIQUID OXYGEN SYSTEM (PTLOX)	6530-01-222-9494	50C-0021-1	CRU-87/U	Ground support	19062
NEXT GENERATION PORTABLE THERAPEUTIC LIQUID OXYGEN SYSTEM (NPTLOX)	6530-01-585-4676	50C-0083-1	3655NCM104411, 16902	Ground Support	19062
BMOS FILLING STATION (BMOS-FS)	3655-01-601-2275	50C-0083-3	3655NCM116923, 26848,	Parachutists, Ground Support Personnel, Human transport, aircraft, helicopter or ground vehicles.	19062
50 GALLON LOX CART (DARK GREEN)	3655-01-066-6214	50C-0014-1	MIL-T-38170, TMU-27/M, 50C-0014-1, 0301045	All Platforms	19062
50 GALLON LOX CART (WHITE)	3655-01-456-0123	50C-0014-5		All Platforms	19062
LOW PRESSURE OXYGEN BOTTLES 280 CUBIC INCH	N/A	80C-0008-1			19062
LOW PRESSURE OXYGEN BOTTLES 280 CUBIC INCH	N/A	80C-0008-21			19062
LOW PRESSURE OXYGEN BOTTLES 280 CUBIC INCH	N/A	80C-0008-22			19062
5 LITER LOX CONVERTER (FIXED)	1660-00-148-9239	10C-0021-5	GCU12A/A, MILC25973, MIL-DTL-25666/4, 10C0021-5, 8148650	F-16, F-5, F-4, F-15	19062
5 LITER LOX CONVERTER (REMOVABLE)	1660-00-327-7048	10C-0020-9	MIL-C-19328, MIL-DTL-19328, 8148650, 10C-0020-6	F-16, F-5, F-4, F-15	19062
10 LITER LOX CONVERTER (FIXED)	1660-00-078-8227	10C-0005-11	MIL-C-19328, 8148650, 21278, GCU2A/A, MIL-C-25777, MIL-DTL-25666/1, 10C0005-11,	F-18, T-38	19062
10 LITER LOX CONVERTER (REMOVABLE)	1660-01-179-4064	10C-0016-16	GCU24A/A, MIL-C-19803F, 10C-0016-16	F-18, T-38	19062
25 LITER LOX CONVERTER	1660-00-122-8101	10C-0001-26	GCU17/A, MIL-C-27336, MIL-DTL-25666/5, 10C-0001-0026	C130, C130J, P3	19062
75 LITER LOX CONVERTER	1660-00-079-4359	10C-0012-75	GCU20/A, MIL-C-27652, MIL-DTL-25666/6, 10C0012-75, 8148650, 10C-0012-0075	C17	19062



5 LITER LOX CONVERTER (REMOVABLE)
NSN - 1660-00-327-7048
P/N - 10C-0020-9
PLATFORMS - F-16, F-15, F-5, F-4



10 LITER LOX CONVERTER (REMOVABLE)
NSN - 1660-01-179-4064
P/N - 10C-0016-16
PLATFORMS - F-18, T-38



25 LITER LOX CONVERTER
NSN - 1660-00-122-8101
P/N - 10C-0001-26
PLATFORMS - C-130, C-130J, P3